

## New Era of Design and Manufacturing

23 Innovative Technologies, High Speed SLA 3D Printing  
Efficient and Cost-Effective Prototyping  
Bring Your Idea into Reality



### Enhanced Printing Efficiency

- Intelligent high speed scanning system, 15m/s
- Variable laser spot and variable power
- Automatic identifying upskin and downskin with differentiated parameters
- Different Parameter database with different layer thickness

### Long-term Printing Stability

- Key components from international top brand: Optowave laser from US, Scanlab galvanometer from Germany
- Full marble structure for enhanced recoating and scanning stability
- High stiffness light recoater to ensure recoating accuracy and efficiency
- Compensation algorithm for multi-head system, ensuring uniform curing in the printing range

## Kings 600Pro

## Kings 650Pro

Max Printing Size	600*600*400mm	650*650*400mm
Machine Size	118cm(W)*129cm(D)*224cm(H)	118cm(W)*129cm(D)*224cm(H)
Rated Power Consumption	1.5KVA	1.5KVA
Machine Weight	about 1200kg	About 1200kg
First Tank Resin	about 240kg	About 260kg
Beam Size (diameter @1/e2)	0.075–0.8mm (Variable Beam)	0.075–0.8mm(Variable Beam)
Max Scanning Speed	15.0 m/s	15.0m/s
Layer Thickness	0.05mm~0.25mm	0.05mm~0.25mm
Accuracy	$L \leq 150\text{mm}, \pm 0.1\text{mm}; L > 150\text{mm}, \pm 0.1\%*L$	$L \leq 150\text{mm}, \pm 0.1\text{mm}; L > 150\text{mm}, \pm 0.1\%*L$

Laser Type	Solid-state frequency tripled Nd: YV04
Wavelength	355nm
PowerResin	Surface Power $\geq 300$ mW
Variable Beam System	Galvo/Closed-loop
Main Sturcture	Marble recoater frame, marble elevator holder and marble scanning system base
Coating Mode	Intelligent position vacuum recoating
Vertical Resolution Ratio	0.0005mm
Repeat Positioning Accuracy	$\pm 0.01\text{mm}$
Motion Control System	Closed-loop
Machine Control Software	KINGS 3D control software
Input Data File Format	STL/SLC
Operating System	Windows 7/10
Network Type and Protocol	Ethernet, TCP/IP
Electrical Requirement	200–240VAC 50/60Hz, single-phase,10A
Ambient Temperature	20–26°C (72–79°F)
Relative Humidity	< 40%, non-condensing
Machine Warranty	2 years (including laser)



High Precision  
Excellent Smoothness and Details  
Versatile Industrial Application